



Safety Data Sheet

Section 1: Identification

Product identifier

- Product Name** • **Zoecon Gentrol IGR Concentrate**
- Synonyms** • 37860A; 37880A; EPA Reg. No.: 2724-351; Zoecon RF-259 Emulsifiable Concentrate
- Product Description** • Straw-colored liquid.

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Insect growth regulator
- Restrictions on use** • KEEP OUT OF THE REACH OF CHILDREN. Avoid inhalation of vapors or fumes. Use in well ventilated area. Avoid contact with eyes, skin or clothing. Do not take internally.

Details of the supplier of the safety data sheet

- Manufacturer** • Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States
www.zoecon.com

Emergency telephone number

- Manufacturer** • 1-800-248-7763
- Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012** • Carcinogenicity 2
Skin Irritation 2
Aspiration 1
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Suspected of causing cancer.
 - Causes skin irritation
 - May be fatal if swallowed and enters airways
 - May cause drowsiness or dizziness

Precautionary statements

- Prevention**
- Wash thoroughly after handling.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Use only outdoors or in a well-ventilated area.
 - Do not breathe dust, fume, gas, mist, vapors and/or spray.
- Response**
- IF ON SKIN: Wash with plenty of soap and water.
 - If skin irritation occurs: Get medical advice/attention.
 - Take off contaminated clothing and wash before reuse.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - Do NOT induce vomiting.
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 - Store locked up.
 - Store in a well-ventilated place. Keep container tightly closed.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
(S)-Hydroprene	CAS:65733-18-8	9%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	59.12%
Solvent naphtha	CAS:64742-94-5	0.92% TO 1.85%
Naphthalene	CAS:91-20-3	0.1% TO 0.28%
Other ingredients	NDA	> 30%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin

- IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, suspected of causing cancer, causes skin irritation, may cause dizziness or drowsiness if inhaled. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

- Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures**Extinguishing media**

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
 - SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- Avoid heavy hose streams.

Firefighting Procedures

- Do not allow fire fighting water to escape into waterways or sewers. LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Keep unauthorized personnel away.

Special hazards arising from the substance or mixture**Unusual Fire and Explosion Hazards**

- No data available.

Hazardous Combustion Products

- No data available.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing fumes.

Emergency Procedures

- Ventilate closed spaces before entering. Avoid release into the environment. Keep out of low areas. Keep unauthorized personnel away. Stay upwind.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up**Containment/Clean-up Measures**

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Stop leak if you can do it without risk. Use appropriate Personal Protective Equipment (PPE).

Section 7 - Handling and Storage**Precautions for safe handling****Handling**

- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin or eyes. Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard.

Conditions for safe storage, including any incompatibilities

- Storage**
- Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep from freezing. Keep container tightly closed.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

- Exposure Limits/Guidelines**
- No data available.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m ³ TWA	10 ppm TWA; 50 mg/m ³ TWA
	STELs	Not established	15 ppm STEL; 75 mg/m ³ STEL	Not established

Exposure Limits Supplemental

- ACGIH**
- Naphthalene (91-20-3): **TLV Basis - Critical Effects:** (cataracts; upper respiratory tract irritation; hemolytic anemia)

Exposure controls

- Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, use NIOSH approved respiratory protection.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Wear chemical resistant gloves.

Skin/Body

- Wear long sleeves and/or protective coveralls and boots.

Environmental Exposure Controls

- Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Straw-colored liquid.
Color	Straw colored.	Odor	Weak, neutral, paint-like.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	7.29
Specific Gravity/Relative Density	0.87 g/cc (7.3 lb/gal)	Water Solubility	No data available
Viscosity	< 50 Centipoise (cPs, cP) or mPas	Critical Temperature	No data available
Volatility			

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
Flammability			
Flash Point	200 F(93.3333 C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excessive heat >110°F. Keep away from fire.

Incompatible materials

- Strong oxidizers.

Hazardous decomposition products

- Thermal decomposition may produce toxic gases.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Zoecon Gentrol IGR Concentrate	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5100 mg/kg; Inhalation-Rat LC50 • >7.2 mg/L 4 Hour (s); Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - May affect the central nervous system. Symptoms may include dizziness or drowsiness.
- Chronic (Delayed)**
 - No data available

Skin

- Acute (Immediate)**
 - Causes skin irritation.
- Chronic (Delayed)**
 - No data available

Eye

- Acute (Immediate)**
 - May cause mild irritation.
- Chronic (Delayed)**
 - No data available

Ingestion

- Acute (Immediate)**
 - Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
- Chronic (Delayed)**
 - **CHRONIC TOXICITY/CARCINOGENICITY (S)-Hydroprene:** A chronic toxicity/carcinogenicity study in rats identified ovaries and the thyroid as target organs. An increased incidence of benign thyroid tumors was present in male rats only at the highest dose tested. Increased weights and macroscopic and microscopic changes in the ovaries were observed at the highest doses. NOEL for males was 1,000 ppm and for females 100 ppm.

Mutagenic Effects

- **MUTAGENICITY:** (S)-Hydroprene has been found negative for mutagenicity potential. It has tested negative in: 1) Ames Test, 2) in vivo cytogenetic assay, 3) micronucleus test (in vivo) and in 4) test for DNA effects- UDS in rats (in vitro).

Carcinogenic Effects

- Naphthalene is listed as a suspected human carcinogen by IARC. (S)-Hydroprene is not a carcinogen.

Reproductive Effects

- **DEVELOPMENTAL AND REPRODUCTIVE TOXICITY(S)-Hydroprene:** Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2- generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm. No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S) Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested). NOEL for maternal toxicity was 1,000 mg/kg/day.

Section 12 - Ecological Information

Toxicity

Components		
(S)-Hydroprene (9%)	65733-18-8	Aquatic Toxicity-Fish: 96 Hour(s) NOEC <i>Rainbow trout</i> >0.43 mg/L [Acute]
Distillates (petroleum), hydrotreated light (59.12%)	64742-47-8	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 2.9 mg/L [Acute] 96 Hour(s) LC50 <i>Lepomis macrochirus</i> 2.2 mg/L [Acute]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects**Potential Environmental Effects**

- No data available.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Reportable Quantity Naphthalene = 100 lbs.
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available

Other information

- DOT • Environmental Hazards: RQ (Naphthalene = 100 lb).
- IMO/IMDG • No data available
- IATA/ICAO • No data available

Section 15 - Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

SARA Hazard Classifications • Acute, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION**Precautionary Statements**

- KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals

- HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

First Aid • Call a poison control center or doctor immediately for treatment advice. If swallowed • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. If in eyes • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eye. If on skin or clothing • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. If inhaled • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

Physical or Chemical Hazards • Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard.

Inventory		
Component	CAS	TSCA
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Naphthalene	91-20-3	Yes
Solvent naphtha	64742-94-5	Yes
(S)-Hydroprene	65733-18-8	No

United States

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Naphthalene	91-20-3	
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Naphthalene	91-20-3	0.1 % de minimis concentration
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Naphthalene	91-20-3	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Naphthalene	91-20-3	waste number U165
• Solvent naphtha	64742-94-5	Not Listed

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Naphthalene	91-20-3	
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• Naphthalene	91-20-3	0.059 mg/L (wastewater); 5.6 mg/kg (nonwastewater)
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Naphthalene	91-20-3	
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Naphthalene	91-20-3	waste number U165
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

• Naphthalene	91-20-3	
• Solvent naphtha	64742-94-5	Not Listed
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• (S)-Hydroprene	65733-18-8	Not Listed

Section 16 - Other Information

Revision Date	• 07/September/2015
Last Revision Date	• 07/September/2015
Preparation Date	• 07/September/2015
Disclaimer/Statement of Liability	• The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.